

ASSOCIATION OF TRICHLOROACETIC ACID PEEL WITH PHOTOBIMODULATION IN THE TREATMENT OF CUTANEOUS HAND PHOTOAGING: A CONTROLLED, RANDOMIZED AND DOUBLE-BLIND CLINICAL TRIAL

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Abstract:

Photodamage is a growing concern in contemporary society because promotes early skin aging and different pathologies resulting from prolonged and repeated exposure to ultraviolet solar radiation, which is considered the main extrinsic factor of this process. Affected by radiation, the hands make an important role in the manifestation and visibility of aging, as they are very exposed body regions. Knowing this, a holistic body approach to rejuvenation is necessary and hand treatment cannot be overlooked. This concern results in a growing rise in minimally invasive rejuvenation treatments capable of providing satisfactory results such as chemical peel and photobiomodulation. The study proposal is developed by the potential mechanism of tissue repair, skin rejuvenation, anti-inflammatory and analgesic effects of photobiomodulation, complementing the benefits of chemical peel. Therefore, this randomized, controlled, double-blind clinical trial aims to compare the effects of monotherapy with 20% trichloroacetic acid (TCA) peel and the effects of the association of 20% TCA peel with 660nm LED photobiomodulation in photoaging treatment of hands. To achieve this, participants will be divided into two groups of different treatments and the results compared at the end of 04 sessions. Features of photoaging will be analyzed, such as fine and coarse wrinkles, abnormal pigmentation and an overall assessment of the back of the hands through periodic standardized photographs. A visual-analog pain scale and a 5-point Likert scale to assess participants' satisfaction will also be applied at the end of the study.

Biography:

Marcos Momolli is a doctoral student in the Biophotonics Department at Nove de Julho University (UNINOVE), São Paulo, Brazil. He is a general surgeon graduated at the Hospital de Clínicas de Porto Alegre (HCPA) and is attending the last year of his residency in plastic surgery at Conjunto Hospitalar do Mandaqui (CHM) in São Paulo. He is also a fellow student in Cosmiatry at the Boggio Institute in São Paulo. His main research interests are in the field of photobiomodulation for skin rejuvenation and tissue repair, which are important factors in his clinical practice.